

Appl. No. 10/828,888
Amdt. dated 04/30/2007
Reply to Office action of 04/09/2007
In the specification:

Please replace the title with the following new title:

A process of manufacturing a four-sided shield structure for a perpendicular write head

Please replace the first paragraph of the DESCRIPTION OF THE PREFERRED EMBODIMENTS with the following amended paragraph:

Referring now to FIG. 2 where the principal elements of the invention can be seen from an ABS view as leading shield 15 (which is connected to the return pole as shown in FIG. 1), a trailing shield 21, and two opposing side shields 22. The main pole 19 (see 13 in FIG. 1), sometimes also referred to as the write pole, is separated from shields by a different amount in each direction. Trailing shield 21, separated from main pole with a gap GT, effects the sharp magnetic field gradient needed for high linear density applications.

Please insert the following new paragraph just prior to the final phrase ("What is claimed is") of the DESCRIPTION OF THE PREFERRED EMBODIMENTS:

In order to fully facilitate reproduction of the invention by interested parties, the following enabling information is supplied: The return pole width is between about 10 and 50 microns. The distance between write pole and trailing shield is between about 0.02 and 0.2 microns. The trailing shield has a thickness between about 0.05 and 0.4

microns. The tapering of the write pole is at an angle of between about 15 and 65 degrees, relative to the vertical. The tapering of the write pole may begin at an edge that is closest to a trailing edge or it may begin at an edge that is closest to a leading edge. Each side shield has a width between about 0.2 and 5 microns. The distances between each of the side shields and the write pole is between about 0.02 and 0.2 microns. Each side shield is between about 0.05 and 5 microns from the leading shield. Each side shield has a thickness between about 0.05 and 0.4 microns. The return pole has a thickness between about 0.5 and 5 microns. The write pole length is between about 0.1 and 0.5 microns and the amount by which the side shield width exceeds the write pole length is up to about 0.2 microns.